

# ATP1B1 Polyclonal antibody

Catalog Number: 15192-1-AP

9 Publications

## Basic Information

<b>Catalog Number:</b> 15192-1-AP	<b>GenBank Accession Number:</b> BC000006	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 450 µg/ml by Nanodrop and 273 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 481	<b>Recommended Dilutions:</b> WB 1:1000-1:8000 IP 0.5-4.0 ug for IP and 1:1000-1:4000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, beta 1 polypeptide	<b>IHC 1:20-1:200</b> <b>IF 1:10-1:100</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 35 kDa	
<b>Immunogen Catalog Number:</b> AG7279	<b>Observed MW:</b> 49-52 kDa	

## Applications

<b>Tested Applications:</b> FC, IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IHC, WB	<b>WB :</b> mouse brain tissue, human heart tissue, human brain tissue, mouse heart tissue
<b>Species Specificity:</b> human, mouse	<b>IP :</b> mouse brain tissue,
<b>Cited Species:</b> human, rat, mouse	<b>IHC :</b> human brain tissue, human skeletal muscle tissue
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IF :</b> HEK-293 cells,

## Background Information

ATP1B1 is one of beta subunits of the Na<sup>+</sup>/K<sup>+</sup> ATPase and responsible for formation and structural integrity of the Na<sup>+</sup>/K<sup>+</sup> ATPase. The Na<sup>+</sup>/K<sup>+</sup> ATPase is a plasma membrane pump consisting of alpha, beta, and gamma subunits. At least four of Na<sup>+</sup>/K<sup>+</sup>-ATPase beta subunits (β1, β2, β3, β4) have been identified in mammalian cells; the β1-subunit (ATP1B1) is the most ubiquitous. The Na<sup>+</sup>/K<sup>+</sup> ATPase β subunits have multiple N-glycosylation sites. The predicted MW of ATP1B1 is 35 kDa, while it migrates around 40-52 kDa due to the variable glycosylation. (PMID: 10896885, 17714085)

## Notable Publications

Author	Pubmed ID	Journal	Application
Akihito Morinaga	31717392	Int J Mol Sci	WB
Wei Cao	34011520	J Immunol	IF, WB
Karolina Plössl	31048931	PLoS One	

## Storage

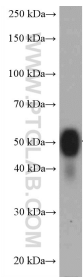
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

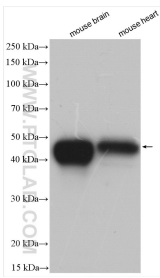
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

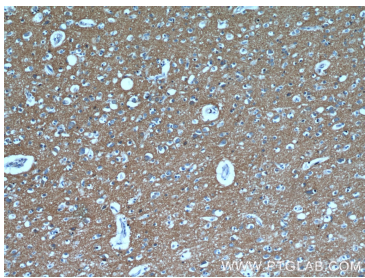
Selected Validation Data



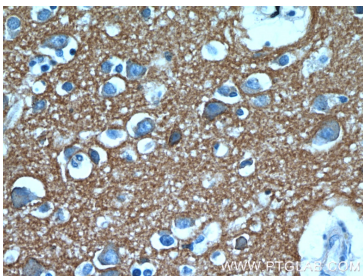
mouse brain tissue were subjected to SDS PAGE followed by western blot with 15192-1-AP (ATP1B1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



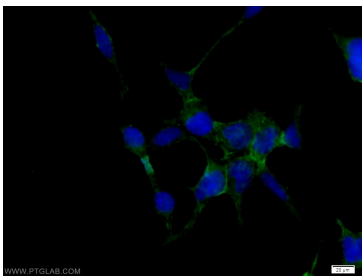
Various lysates were subjected to SDS PAGE followed by western blot with 15192-1-AP (ATP1B1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



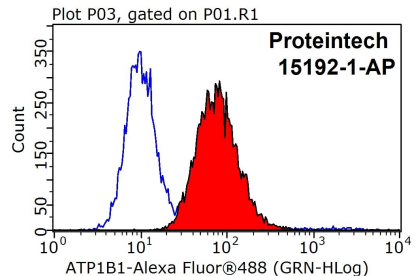
Immunohistochemical analysis of paraffin-embedded human brain using 15192-1-AP (ATP1B1 antibody) at dilution of 1:50 (under 10x lens).



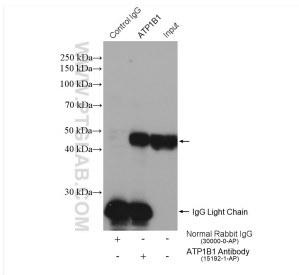
Immunohistochemical analysis of paraffin-embedded human brain using 15192-1-AP (ATP1B1 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HEK-293 cells using 15192-1-AP (ATP1B1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10<sup>6</sup> HEK-293 cells were stained with 0.2ug ATP1B1 antibody (15192-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



IP result of anti-ATP1B1(IP:15192-1-AP, 4ug; Detection:15192-1-AP 1:2000) with mouse brain tissue lysate 1600 ug.